

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10577374
	Filing Date		2007-01-23
	First Named Inventor	David M. Sutton et al.	
	Art Unit	1621	
	Examiner Name	Valenrod, Yevgeny	
	Attorney Docket Number	KPT 1101; P501275US	

U.S. PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	1400849		1921-12-20	BACKHAUS	
	2	2551625		1951-05-08	MORRELL, et al.	
	3	2575243		1951-11-13	CARLSON, et al.	
	4	2587753		1952-03-04	O'CONNOR, et al.	
	5	4435595		1984-03-06	AGREDA, et al.	
	6	5008046		1991-04-16	BREMUS et al.	
	7	5536856		1996-07-16	HARRISON, et al.	
	8	5719311		1998-02-17	WU, et al.	

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( Not for submission under 37 CFR 1.99)

Application Number	10577374
Filing Date	2007-01-23
First Named Inventor	David M. Sutton et al.
Art Unit	1621
Examiner Name	Valenrod, Yevgeny
Attorney Docket Number	KPT 1101; P501275US

9	6045703		2000-04-04	MILLER	
10	6586609	B2	2003-07-01	RUGGIERI, et al.	
11	6815525	B2	2004-11-09	DEBRUIN	
12	7045100	B2	2006-05-16	ERGUN, et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

## **U.S. PATENT APPLICATION PUBLICATIONS**

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20060252956	A1	2006-11-09	Miller, et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

Add

## **FOREIGN PATENT DOCUMENTS**

Remove

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	9851657	WO	A1	1998-11-19	Reilly Industries, Inc.		<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button.

Add

## **NON-PATENT LITERATURE DOCUMENTS**

Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10577374
Filing Date	2007-01-23
First Named Inventor	David M. Sutton et al.
Art Unit	1621
Examiner Name	Valenrod, Yevgeny
Attorney Docket Number	KPT 1101; P501275US

1	ASTHANA, N., et al., "A Continuous Reactive Separation Process for Ethyl Lactate Formation," 2005, Organic Process Research & Development, 9(5):599-607 (Abstract)	<input type="checkbox"/>
2	BOCK, et al., "Design and Control of a Reaction Distillation Column Including the Recovery System," 1997, Chem. Eng. and Proc., 36(2):101-109 (Abstract)	<input type="checkbox"/>
3	DENG, et al., "Synthesis of Tributyl Citrate Catalyzed by Sodium Hydrogen Sulfate," 2005, J Shangqiu Teachers College, 21(2):113-115 (Abstract)	<input type="checkbox"/>
4	GANGADWALA, J., et al., "Esterification of Acetic Acid with Butanol in the Presence of Ion-Exchange Resins as Catalysts," 2003, Ind. Eng. Chem. Res., 42(10):2146-2155 (Abstract)	<input type="checkbox"/>
5	GOTZE, L., et al., "Reactive Distillation with KATAPAK," 2001, Catalysis Today, 69(1-4):201-208 (Abstract)	<input type="checkbox"/>
6	HANIKA, J., et al., "Butylacetate Via Reactive Distillation - Modelling and Experiment," 1999, Chemical Engineering Science, 54(21):5205-5209 (Abstract)	<input type="checkbox"/>
7	HIWALE, R.S., et al., "Industrial Applications of Reactive Distillation: Recent Trends," 2004, Int. J. Chem. React. Eng., 2(R1):54 pages	<input type="checkbox"/>
8	KOLODZIEJ, et al., "Mass Transfer of Hydraulics for KATAPAK-S," 2004, Chem. Eng. Proc., 43(3):457-464 (Abstract)	<input type="checkbox"/>
9	LIU, et al., "Catalytic Synthesis of Tri-butyl Citrate with Dealuminated USY," 2003, Chinese Journal of Synthetic Chemistry, 11(2) 175-177 (Abstract)	<input type="checkbox"/>
10	MAHAJANI, S.M., et al., "Reactive Distillation: Process of Commercial Importance," 2000, Encyclopedia of Separation Science, Wilson, Edlard, Poole C.A. and m. Cooke, Eds. 3:4075-4082	<input type="checkbox"/>
11	MORITZ, P., et al., "Fluid Dynamics in Reactive Distillation Packing Katapak -S," 1999, Chemical Engineering Science, 54:1367-1374	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10577374
Filing Date	2007-01-23
First Named Inventor	David M. Sutton et al.
Art Unit	1621
Examiner Name	Valenrod, Yevgeny
Attorney Docket Number	KPT 1101; P501275US

12	NONG, L., et al., "Synthesis of Tributyl Citrate with Aluminum Phosphotungstate Supported on Activated Carbon," 2004, Jingxi Huagong Zhongjianti, 32(3):50-52, 54 (Abstract)	<input type="checkbox"/>
13	OMOTA, F., et al., "Fatty Acid Esterification by Reactive Distillation. Part 1: Equilibrium-Based Design," 2003, Chemical Engineering Science, 58:3159-3174	<input type="checkbox"/>
14	RATHEESH, S., "Holdup and Pressure Drop Studies in Structured Packings with Catalysts," 2004, Chemical Engineering Journal, 104:45-54	<input type="checkbox"/>
15	SCHMITT, et al., "Synthesis of N-Hexyl Acetate by Reactive Distillation," 2004, Chem. Eng. Proc., 43:397-409	<input type="checkbox"/>
16	SCHMITT, et al., "N-Hexyl Acetate Pilot Plant Reactive Distillation with Modified Internals," 2005, Chem. Eng. Proc., 44:677-685 (Abstract)	<input type="checkbox"/>
17	SHARMA, M.M., et al., "Chapter 1. Industrial Application of Reactive Distillation in Reactive Distillation," 2003, Reactive Distillation: Status and Future Directions, pgs. 3-29, Sundmacher and Kienle, Eds., Wiley-VCH Verlag GmbH & Co. KGaA, Germany	<input type="checkbox"/>
18	SHI, et al., "The Synthesis of Tributyl Citrate Catalyzed by Solid Super Acid S2O82-/TiO2-SiO2," 2004, Applied Chemical Industry, 33(3):41-43 (Abstract)	<input type="checkbox"/>
19	SMEJKAL, Q., et al., "2-Methylpropylacetate Synthesis in a System of Equilibrium Reactor and Reactive Distillation Column," 2001, Chemical Engineering Science, 56:365-370	<input type="checkbox"/>
20	SPES, H., "Catalytic Reactions in Ion-Exchange Columns Under Conditions of The Chemical Equilibrium Shift," 1966, Chemiker-Ztg./Chem Apparatur, 90(13):443-446	<input type="checkbox"/>
21	STANKIEWICZ, et al., "Process Intensification: Transforming Chemical Engineering," 2000, Chemical Engineering Progress, 22-34	<input type="checkbox"/>
22	TAO, X., et al., 1998, Huaxue Shijie, 39(6):302-304	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10577374
Filing Date	2007-01-23
First Named Inventor	David M. Sutton et al.
Art Unit	1621
Examiner Name	Valenrod, Yevgeny
Attorney Docket Number	KPT 1101; P501275US

23	TAYLOR, R., et al., "Chapter 9. Modeling of Homogeneous and Heterogeneous Reactive Distillation Processes," 2003, Reactive Distillation, pgs. 217-240, Sundmacher and Kienle, Eds., Wiley-VCH Verlag GmbH & Co. KGaA, Germany	<input type="checkbox"/>
24	TAYLOR, R., et al., "Modelling Reactive Distillation," 2000, Chemical Engineering Science, 55:5183-5229	<input type="checkbox"/>
25	VAN BATEN, J.M., et al., "Liquid-Phase Mass Transfer Within KATAPAK-S Structures Studied Using Computational Fluid Dynamics Simulations," 2001, Catalysis Today, 69:371-377	<input type="checkbox"/>
26	ZHENG, et al., "Study on the Synthesis of Tributyl Citrate," 2004, Fine Chemical Intermediates, 34(1):28-30 (Abstract)	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.